USSR

UDC 547.831+661.52

SHEYNKMAN, A. K., PRILEPSKAYA, A. N., KUCHERENKO, A. P., BARANOV, S. N.

"Direction of Quaternization of Six-Membered Nitride Heterocycles Containing the Dialkylaminophenyl Radical"

Kiev, Ukrainskiy Khimicheskiy Zhurmal, Vol XXXVIII, No 6, 1972, pp 589-594

Abstract: It is known that the cause of the chromaticity of pyridine and benzopyride salts is frequently the formation of complexes with charge transfer [E. M. Kosover, Novyve problemy fizicheskoy organicheskoy khimii, Mir Press, Moscow, 36-94, 1969]. Accordingly, the conclusions of D. I. Gamaise, et al. [Chem. and Ind., 1645, 1967] were checked on various six-membered heterocycles containing the n-dialkylaminophenyl radicals in the α and γ positions. Thus, a study was made of the direction of quaternization under various conditions of bases (I) and also 2-n-dialkylaminophenyl quinolines (II), 2-(1'alky1-1',2',3',4'-tetrahydroquinoliny1-6')-quinolines (III) and 9-n-dialky1aminophenylacridines (IV). In the reaction of 2-n-dialkylaminophenylquinolines and their analogs with alkyl halides at 80-150°, the following quaternary salts were obtained: 4-(n-dialkylaminophenyl)-pyridinyl, 2(n-dialkylaminophenyl)quinolinyl, 1-methy-6-(quinoly1-2')-1, 2, 3, 4-tetrahydroquinolinyl, 9-n-(dialkylaminophenylacridinyl). Substitutions are presented for the ring R' and the extraring nitrogen atom R and the anions X. Synthesis procedures, physical and chemical characteristics and yields are presented for eight compounds. 1/1

UDC 547.241+547.835+547.821+547.558.1

USSR

SHEYNKMAN, A. K., SAMOYLENKO, G. V., and BARANOV, S. N., Donets State University, Donets Department of Physical and Organic Chemistry of the Institute of Physical Chemistry, Academy of Sciences Ukrainian SSR

"Arbuzov Rearrangement Under the Action of Heteroaromatic Cations"

Moscow, Doklady Akademii Nauk SSSR, Vol 196, No 6, 1971, pp 1,377-1,378

Abstract: Recently D. REDMORE suggested the synthesis of phosphonic acids of the acridine series by the interaction of quarternary acridinium salts with diethylsodium phosphate by the Michaelis-Becker method. At the same time, the authors of the present article, which is the twelfth in the series "Reactions of Cyclammonium Cations," suggested a more general method for the synthesis of heterocyclic phosphonic acids by the reaction of trialkyl phosphites with N-acyl salts of six-membered nitrogen heterocycles. This reaction proved especially convenient with protonic salts of some six-membered nitrogen hetero-Thus, reaction with acridine hydrochloride yielded not only 9-acridinylphosphonic acid, but also dialkyl-9,10-dihydroacridine-9-phosphonates. Dehydrogenation of the latter gives dialkyl-acridine-9-phosphonates and then, by acid hydrolysis, acridinyl-9-phosphonic acid. The reaction is evidently common to all heteroaromatic cations.

PROCESSING DATE--020CT70 TITLE--REACTIONS OF CYCLAMMONIUM CATIONS. VII. REACTION OF ACRIDINE WITH ACTIVATED AROMATIC COMPOUNDS IN THE PRESENCE OF AN ACYLATING AGENT -U-AUTHER-(03)-SHEYNKMAN, A.K., POTASHNIKOVA, S.G., BARANOV, S.N.

COUNTRY OF INFO--USSA

SCURCE--ZH. URG., KHIM. 1970, 5(3) 614-19

DATE PUBLISHED -----70

SUBJECT AREAS--CHEMISTRY

TGPIC TAGS--ACRIDINE, MORPHOLINE, IODINATED ORGANIC COMPOUND, QUINDLINE, CHEMICAL SYNTHESIS

CONTPOL MARKING--NO RESTRICTIONS

DECUMENT CLASS--UNCLASSIFIED PRIXY REFLIFRAME--1992/1425

STEP NO--UR/0366/70/005/003/0614/0519

CIRC ACCESSION NO--APOLIZATE UNCLASSIFIED

PRUCESSING DATE--020CT70 UNCLASSIFIED 2/2 CTRC ACCESSION NO--APO112419 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. THE REACTION OF 10, METHYL, 9, MORPHOLING, 9, 10, DIHYDROACRIDINE WITH ACPIDINIUM METHIODIDE GAVE STABLE 9. MORPHOLINOACRIDINIUM METHIODIDE AND NIMETHYLACRIDINE. THIS HYDRIDE TRANSFER REACTION SERVED AS A MODEL FOR A NEW SYNTHESIS OF 9.(K. SUBSTITUTED), ACRIDINES (1). THE REACTION OF ACRIDINE WITH A MIXT. OF RH AND R PRIME! COCL GAVE 39-83PERCENT I AND N (R PRIME! CO SUBSTITUTED) ACRIDINES (R GIVEN): P, ME SUB2 NC SUB6 4 SUB4, P, ET SUB2 NC SUES H SUB4. P. MEETNE SUB6 H SUB4. P. (PH CH SUB2) SUB2 NC SUB6 H SUB4. P.ME(PHCH SUB2)HC SUB6 H SUB4. 1.METHYL.2.3.DIHYDRO.5.INDOLINYL, 1.METHYL, 1, 2, 3, 4. TETRAHYDRO, 6, QUINOLINYL, 1, ETHYL, 2, METHYL 1.2.3.4. TETRAHYDRO. 6. QUINOLINYL. I, ETHYL, 2, METHYL, 1, 2, 3, 4, TETRAHYDRO, 6, QUINDLINYL, AND P.MORPHOLINO, PHENYL. INCLASS LETED

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	Soedin. 1970, (1), 130-1 (Russ). Heating or pickly in the 1,2-dihydro-1-isoquinolyl)-2,4-thiazolidinedione, m. 189-90, with KOH gave 2-benzoyl-1,2-dihydro-1-isoquinolylthioglycolid acid, which was a subject to the solid property of the solid		
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	162.4-3°; Ph, Ph, NPh, 212.5-13°; Ph, Ph, S, 211-12°. G. M. Kosolapoff		
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PODGOYETSKIY, M. L., SHVARTSER, V. I., SHEYNKERMAN, E. Z., MOSKVINA, M. A., MAR'YANOVSKIY, Ya. M., LIVSHITS, A. M., PROZOROV, M. A., "Tsvetmetavto-matika" Special Design Office

"A Pneumatic Compensation Differential Manometer"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 36, Dec 71, Author's Certificate No 322676, Division G, filed 24 Nov 69, published 30 Nov 71, p 138

Translation: This Author's Certificate introduces a pneumatic compensation differential manometer which contains a diaphragm measurement unit consisting of a support cushion, diaphragms, a diaphragm connector and a needle gate valve. The manometer also contains a converter which changes force to a pneumatic signal. As a distinguishing feature of the patent, The accuracy and reliability of the device are improved by making the diaphragm connector in the form of a hollow stepped cylinder with flanges for fastening the diaphragms. The needle gate valve is located in the inner cavity of the cylinder, which is equipped with a frame with contact support element.

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AA0040675 SHEYNKMAN L. A" UR 0482
Soviet Inventions Illustrated, Section I Chemical, Derwent,

241660 TRANSPORTATION OF FINELY DIVIDED CHARGE to a smelting furnace, for example by means of compressed air is characterized in that, in order to reduce consumption of compressed air (or other gas) and to facilitate operation of the furnace, the charge is transported directly into the burner by means of compressed oxygen in the amount required . . only for this purpose. The rate of oxygen issuing from an ejector is controlled. The proposed method differs from the pneumatic transportation system in that it does not include a dust separating system and intermediate bankers for holding the charge and the gas tube terminates at the melting unit, passing directly into the charge/oxygen vertical or horizontal burners. 15.1.68 as 1211823/22-1. L.M.BOCHKAREV et al(26.8.69) Bul 14/18.4.69. Class 40a. Int.Cl.C 22b.

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Semiconductors and Transistors

USSR

UDC: 621.382.2

LUK'YANCHIKOVA, N. B., SOLGANIK, B. D., SHEYNKIAN, N. K., FROTASOV, I. I., and TROFIM, V. G.

"Excess Noise in Heterogeneous p-Al_XGa_1-xAs--n-GaAs Fhotodiodes"

Leningrad, Fizika i tekhnika poluprovodnikov, No 10, 1972, pp 1851-1855

Abstract: Stating that research on the noise characteristics of heterojunctions has been neglected, the authors present the results of experimental investigations into the low-frequency noise characteristics, at 20-2·102 Hz, of p-AlxGa1-xAs-n-GaAs specimens. The specimens were obtained by the growth of solid solution AlAs-GaAs p-type epitaxial layers on n-GaAs substrates. The current noise spectral density was measured in darkness with the heterojunctions biased in the forward as well as inverse directions, and with the heterojunctions illuminated in the gate and photodiode modes. The measurements were conducted at temperatures of 77-300° K and the wavelength of the illuminating light was 0.68 microns. It was found that the current noise was in all cases such higher than the shot noise level, and that illumination of the specimens did not vary the current noise spectral density with the specimens biased

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

USSR

UDC: 621.382.2

LUK'YANCHIKOVA, N. B., et al, Fizika i tekhnika poluprovodnikov, No 10, 1972, pp 1851-1855

in the inverse direction. Current noise spectral densities and families of volt-ampere characteristics of the specimens are plotted.

2/2

UDC 621.382.2

USSR

LUK YANCHIKOVA, N. B., GARBAR, N. P., SHEYNKMAN K. Institute of Semiconductors of the Ukrainian SSR Academy of Sciences, Kiev

"Excess Currents and Noise of Forward-Biased GaP Diodes"

Leningrad, Fizika i Tekhnika Poluprovodnikov, Vol 6, No 5, 1972, pp 869-877

Abstract: Joint studies were made of the excess currents and excess noise in GaP light diodes with forward-bias in the dark and with illumination. The excess currents observed in the initial sections of the volt-ampere characteristics of the GaP diodes which are frequently characterized by a complex i(u) tics of the GaP diodes which are frequently characterized by a complex i(u) function, are related to the tunnel-recombination surmounting of the p-n-function potential barrier by the carriers. The tunnel-recombination currents do not run through the entire area of the p-n-junction but only through the basic regions the thicknesses of which are much less than its mean thickness and the total area is 1-2 orders less than the total area of the junction. The current noise observed in the excess current region is also excess, it has a spectrum of the 1/f type and is generated in the space charge region of the p-n-junction while the excess forward current passes through it. In a region of higher U when the primary contribution to the total diode current is made by the thermal emission current, the observed excess noise 1/f is still caused 1/2

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UDC 621.382.2

LUK'YANCHIKOVA, N. B., et al., Vizika i Tekhnika Poluprovodnikov, Vol 6, No 5, 1972, pp 869-877

by the presence of tunneling of a small part of the carriers through the p-n-junction. The presence of a plateau in the S_i (i)-functions can arise from the fact that the investigated noise is generated only in the "special" regions of the p-n-junction or by the existence of a defined relation between the tunnel recombination and the TE current mechanisms in the investigated diodes. The effect of light on the junction reduces to a reduction in height of the potential barrier. The excess current mechanism and the mechanism of the excess noise accompanying this current do not change under the effect of light.

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SIBSE

UDC [537.226+537.311.33] : [537+535]

SHEYNKMAN. M. K.

"Methods for Simultaneously Investigating Photoluminescence and Photoconductivity in Semiconductors (Crystal Phosphors)"

Kiev, V sb. Elektrolyuminestsentsiya tverd. tel (Electroluminescence of Solids -- collection of works), Nauk. dumka, 1971, pp 77-91 (from RZh-Fizika, No 11, 1971, Abstract No 11E1185)

Translation: A complex of new steady-state and kinetic methods of simultaneous investigation of photoconductivity and luminescence of semiconductors (crystal phosphors) with a complex spectrum of local centers in the forbidden zone is considered. These "simultaneous" methods are based on the comparison of stationary variations of the photocurrent (n) and the intensity of the luminescence W2 (in the various bands) with the excitation intensity L for low and high temperatures; the variations with temperature n(T) and W(T) in the regions of temperature quenching of the photocurrent and the extinction of the luminescence; the kinetics of n(t), where t is the time, and W(t) for strong excitation

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- 48 -

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USSR

SHEYNKMAN, M. K., Elektrolyuminestsentsiya tverd. tel, Nauk. dumka, 1971, pp 77-91

pulses in the low-temperature region. In principle, the use of these methods permits: a) measuring the most important parameters of the recombination centers (including the glow centers): the concentration, the energy positions, the cross section of majority and minority carrier capture, the portions of the recombination flow passing through the investigated centers, their filling with carriers under illumination; b) establishing the nature (radiative or nonradiative) of the capture of free carriers at the centers; c) determining the charge state of the centers; d) measuring the quantum output of the radiation in the investigated band of luminescence. The conditions for using the methods are indicated. Author's abstract.

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Crystals & Semiconductors

UDC 539.293:535.374:546.681'191.1

USSR

BELEN'KIY, G. L., KROLEVETS, N. M., LASHKAREV; V. YE., and SHEYNKMAN, M. K., Institute of Semiconductors, Academy of Sciences Ukrainian SSR, Kiev; Institute of Physics, Academy of Sciences Azerbaydzhan SSR, Baku

"Radiative Electron Capture by Sensitivity Centers in High-Pre sistivity GaAs"

Kiev, Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 1, Jan 71, pp 128-132

Abstract: In order to elucidate the mechanism of electron capture by r-centers, the authors studied tionary dependence of the photocurrent and luminous intensity on temperature and excitation intensity (at various temperatures) as well as optical infrared quenching of photocurrent and luminescence. High-resistivity Cu-doped (~10-3 percent Cu) Gais single crystals were studied. The photoluminescence spectra of typical specimens display two luminescence bands hv m = 0.99 ev (band 1)

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USSR

BELEN'KIY, G. L., et al., Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 1, Jan 71, pp 128-132

and $h\nu_m$ = 1.23 ev (band 2), which undergo thermal quenching due to thermal excitation of noles from the r-centers into the v-band and their subsequent capture by s-centers of fast recombination. It is shown that band 1 is due to radiative capture of electrons by the centers of slowest recombination of the majority carriers (r-centers). In the GaAs: Cu forbidden gap, and situated closer to the v-band than the r-centers are recombination m-centers $E_{\gamma m} \approx 0.3$ ev, which take part in the recombination at $T \lesssim 120^{\circ}$ K. It is shown that band 2 is due to electron capture by these centers.

In order to determine whether the r-centers are due to the Cu atoms present in the crystals, the intensity of the luminescence $h\nu_m$ = 1.04 ev observed in n-type GaAs specimens undoped

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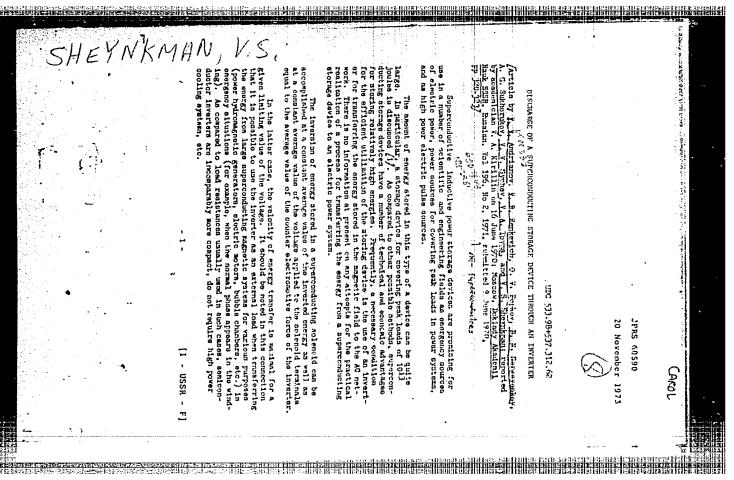
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BELEN'KIY, G. L., et al., Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 1, Jan 71, pp 128-132

with Cu atoms whose Cu content, according to chemical analysis data, did not exceed 5.10-6 percent (electron concentration n = $1\cdot10^{15}$ - $1\cdot10^{16}$ cu m and mobility $\mu_n = 3\cdot10^{-3} + 5.5\cdot10^{-3}$ sq cm/v·sec in different crystals) was compared with the intensity of band 1 in the Cu-doped crystals. It was found that the luminescence band intensities of 1.04 and 0.99 ev in both types of crystals differed by a factor of three at most and the variation with temperature of the intensities of both bands and the variations of their intensities with excitation intensity were similar. This indicates that the luminescence centers responsible for the band $hV_m = 1.04$ ev are not directly related to copper atoms.

The authors thank A. V. LYUBCHENKO, Candidate of Physico-mathematical Sciences, for discussing the results.

3/3



Glass and Ceranics

USSR

UDC 666.1.031:532.5

SOKOLOV, A. A., SHEYNKOP, I. M., and PCHELYAKOV, K. A.

Modelirovaniye protessov gidrodinamiki vyazkikh rasplavov)Modeling of Processes of the Hydrodynamics of Viscous Smelts), Moscow, Izdatel stvo Literatury po Stroitel stvu, 1972, 191 pp

Translation of Annotation: The book discusses the physical bases of processes of modeling the hydrodynamics of viscous smelts. Theoretically based methods are given for the calculation of convectional and production flows. Questions are examined which concern the influence of internal sources of heat and bubbling on a viscous smelt. Several engineering tasks are presented which have been solved by the authors with the modeling method.

The book is intended for technical engineering workers in the glass manufacturing industry and also may be used by students at schools of higher education.

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USSR UDC: 621.371

ANDRUSEVICH, L. K., KARYOV, V. N., and SHEYNMAN, D. I.

"Apparatus for Investigating Amplitude Probability Distribution and the Phase of Radio Signals Combined"

Moscow, Pribory i Tekhnika Eksperimenta, No. 3, 1971, pp 118-119

Abstract: A combined investigation of the fluctuations of phase and amplitude of short-wave signals in the ionosphere provides an insight to the physics of the signal fluctations and permits estimating the potential noise immunity of phase-manipulated systems. The equipment described in this article for making such an investigation can obtain the conditional amplitude probability distributions and phase directly in the process of measurement. The block diagram of this apparatus is given, and its operation described. A separate block diagram of the phase fluctuation meter is also shown, together with a graph illustrating its operation. The authors express their gratitude to A. N. Shilovskiy for his assistance. They are associated with the Novosibirsk Electrotechnical Institute.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

CCUNTRY OF INFO--USSR

SCURCE--ARKH ANAT GISTOL EMBRICL 58(2): 44-50; ILLUS. 1970.

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- SALIVARY GLAND, BLOGD CIRCULATION, MEDICAL EXPERIMENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1055

STEP NO--UR/9076/70/058/002/0044/0050

CIRC ACCESSION MO--APO128483

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

UNCLASSIFIED PROCESSING DATE--13NOV70 2/3 015 CIRC ACCESSION NO--AP0128483 ABSTRACT. EXPERIMENTS IN 50 RABBITS WERE ABSTRACT/EXTRACT--(U) GP-0-USED FOR MACRO- AND MICROSCOPIC STUDIES OF TRANSFORMATIONS IN INTRADREAMIC BLOOD VESSELS OF THE PAROTID SALIVARY GUAND AFTER OCCUUSION OF EXTRA ORGANIC VESSELS SUPPLYING EITHER THE IMTACT; PRACTICALLY MORMAL GLAND OR THE GLAND AFFECTED WITH ASEPTIC TURPENTINE (INFLAMMATION. SECTION OF 1 OF THE MAIN CERVICO CERBRAL VESSELS (COMMON CAROTID ARTERY OR EXTERNAL JUGULAR VEIN) IS USUALLY COMPLETELY COMPENSATED FOR THE DEVELOPMENT OF COLLATERAL CIRCULATION. THE MORE STRIKING CHANGES IN THE VASCULATURE OF THE GLAND WERE SEEN AT EARLY POSTOPERATIVE PERIODS. OCCUDED BLOOD SUPPLY PROMOTES FURTHER TRANSFORMATION OF THE GLAND'S VASCULAR BED WITH TIME. NORMAL VASCULAR PATTERNS ARE NOT APPARENT BEFORE 90 DAYS POSTOPERATION. IMPAIRED DRAINAGE OF BLOOD FROM THE GLAND IS COMPENSATED FOR MUCH FASTER (AFTER 15-30 DAYS). COMPLETE RECOVERY OF THE GLAND'S VASCULATURE DID NOT TAKE PLACE EVEN AS LATE AS 180 DAYS. AFTER UBSTRUCTION OF THE COMMON CARUTID ARTERY AND PARTICULARLY, THE EXTERNAL JUGULAR VEIN, DURING THE COURSE OF ASEPTIC INFLAMMATION, CHANGES IN THE VASCULAR BED OF UNAFFECTED PORTIONS OF THE GLAND PROCEED IN THESE EXPERIMENTS, GREAT NUMBERS OF ENLARGED WITH GREATER INTERSITY. AND TURTUOUS COLLAIGRAL VESSELS MAY BE SEEN IN THE INTERLUBULAR THE DENSITY OF TERMINAL CAPILLARY CONNECTIVE TISSUE UP TO THE 90TH DAY. NETS WAS 1.5-2.5 THAT OF CAPILLARIES IN EXPERIMENTS WHERE A MAIN CERVICO CEREBRAL VESSEL WAS SECTIONED WITHOUT PRELIMINARY INFLAMMATION. CLINICAL IMPLICATIONS OF THESE FEATURES IN THE DEVELOPMENT OF COLLATERAL CIRCULATION ARE DISCUSSED.

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GIRC ACCESSION NOAPOL28483	UNCL,	UNCLASSIFIED		PAUCESSING DATE13NOV7		TE13NOV70
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USSR

SHIBALIN, V. A.

UDC 621.396.6.002.72(088.8)

"A Device for Producing Radio Component Leads Bent into a Helix"

USSR Author's Certificate No 254605, Filed 1 Apr 68, Published 10 Mar 70 (from RZh-Radiotekhnika, No 10, Oct 70, Abstract No 10V301 P)

Translation: A device is proposed for producing radio component leads bent into a helix. The device is equipped with a drive mechanism and a lead-shaping unit with gears which twist the leads. As a distinguishing feature of the patent, reliability one over the other. Fastened to the lower slider is increased by using three sliders which bend the leads through 90°. Fastened to the middle slider is the axle of a gear which moves over a stationary rack, and the upper slider is equipped with ports for pins used for axial displacement of the gears.

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USSK

UDC 620.193.43

PENYAGINA, O. P., OZERYANAYA, I. N., SMIRNOV, M. V., SHIBANOV, B. S., and SHAMANOVA, N. D., Academy of Sciences USSR, Ural Branch, Institute of Electro-

"Passivation of Iron and Nickel in Molten Carbonates"

Moscow, Zashchita Metallov, Vol 8, No 3, May-Jun 72, pp 312-314

Abstract: A study was made of the passivation of NO nickel and Armco iron in carbonate melts. Significant passivation of nickel is observed in the ternary eutectic mixture of lithium, sodium, potassium carbonates at 800°. At 600° there is appreciable inhibition only of the dissolution of electrodes electropolished or working in contact with electronegative titanium. At 800° the phase composition of the film on the electrode changes as a result of the insertion of lithium oxide in the crystal lattice of nickelous oxide (solid solution Li20.N10). The corrosion rate and steady-state potentials do not depend on the cation composition of the melt. The influence of the nature of the melt is noted in the anodic polarization of nickel under potentiostatic con-

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USSR

PENYAGINA, O. P., et al., Zashchita Metallov, Vol 8, No 3, May-Jun 72, pp 312-

The kinetic characteristics of Armco iron passivation were studied in a cutectic mixture of lithium, sodium, and potassium carbonates (0.43:0.32:0.25) at 600°. In contrast to nickel, the rate of anodic dissolution of iron at this temperature is high from the very start of polarization. The process is accompanied by intensive covering of the surface of the metal with products of its interaction with ions of the melt, and it reaches a maximum in the region of sufficiently negative potential values and then a sharp transition of the electrode to the passive state is observed. The iron electrodes after the test were coated with a film, X-ray diffraction analysis of which shows the formation of compounds of the LiFeO₂ and Fe₃O₄ spinel type on the surface of the iron during anodic polarization. Films with such a structure as a rule possess high protective properties.

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UDC 632.95

SHIBANOV. G. N., KAKLYUGIN, V. YA., North Caucusus Scientific Research Institute of Phytopathology

"A Method of Making 2,3,5-Trichloro- or 2,3,5,6-Tetrachloro-4-aminopyridines"

USSR Author's Certificate No 348560, Div C, filed 2 Feb 70, published 8 Sep 72 (from RZh-Khimiya, No i4, 25 Jul 73, Abstract No 148621 by T. A. Belyayeva)

Translation: A method is proposed for making 2,3,5-Cl₃-4-NH₂-pyridine (I) or 2,3,5,6-Cl₄-4-NH₂-pyridine (II) by reacting 2,3,4,5-Cl₄-pyridine or 2,3,4,5,6-Cl₅-pyridine (III) with gaseous NH₃ in dimethylsulfoxyl at 60-65^CC. Example. NH₃ is bubbled through a mixture of 5 g of III in 6 ml of dimethylsulfoxyl at a rate of 80 ml/min at 60-65^CC for 3 minutes, the reaction mass is cooled, poured into 15 ml of water, the precipitate if siltered out, washed with 10 ml of water and dried giving compound II with a yield of about 100, melting point 222^CC (alcohol). In a similar manner compound I is produced with a yield of 91% and a metling point of 143^CC.

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USSR

UDC: 621.396.6.002(088.8)

GORODETSKIY, B. V., KOKHANOV, B. T., SHIBANOV, G. P., Taganrog Radio Engineering Institute

"A Device for Automatically Checking Radio Electronic Equipment"

USSR Author's Certificate No 264792, filed 16 Sep 68, published 2 Jul 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1V359 P)

Translation: A device is proposed which contains a normalizing commutator, a program unit, an analyzer, modules for measuring, self-monitoring and display, and completion time pickups. The device contains an additional computer module whose inputs are connected to the outputs of the pickups for the time of completion of the object being monitored, to the outputs of the modules of the monitoring device, and to the output of the analyzer, while the output of the computer module is connected to the input of the display module.

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UDC: 621.396.6.022(088.8)

KOKHANOV, B. T., GORODETSKIY, B. V., SHIBANOV, G. P., TOTAYEV, L. T., Taganrog Radio Engineering Institute

"A Device for Automatically Checking Electronic Radio Equipment"

USSR Author's Certificate No 264793, filed 15 Sep 68, published 29 Jun 70 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12V462 P)

Translation: This Author's Certificate introduces a device for automatically checking electronic radio equipment. The unit contains a normalizing commutator, measurement device, analyzer, signal converters, time-setting units with time selectors, and modules for automatic monitoring and display. To improve efficiency in checking, the device also contains a prognosis module whose inputs are connected through the signal converters and time selectors to the prognosis outputs of the normalizing commutator, measurement device and analyzer, while the output of the prognosis module is connected to the display module through an OR circuit. The other input of the OR circuit is connected to the output of the automatic monitoring module.

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Soviet Inventions Illustrated, Secreton II Electrical, Derwent,

238247 CURVE SHAPE RECOGNITION ANALYSER consists of
two units which work in synchronism. The
first reads the ordinates of the curve and contains
a tape feed, a vidicon with a vertical siveep
generator and a photodiode. The second analyses
the result and includes an up-down counter, a pulse
generator, shift register and decoder. The two
units are synchronised by delay circuits, OR-gutes
and a binary counter with a decoder.
14.12.67 as 1203204/18-24. C. P. SHIBANOV (12.07.69)
Bul 9/20.2.69. Class 42m⁶. TRETTU 06c.

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Fiscellaneous

USSR

MEDZHIBOZHSKIY, M. YA., and SHIBANOV, V. I., Zhdanov Metallurgical Institute

"Effect of Technological Factors on Desulfuration of Metal in Large Open-Hearth Furnaces"

Novokuznetsk, IzVUZ-Chermaya Metallurgiya, No 6, 1971, pp 59-62

Abstract: For the purpose of studying the process of metal desulfuration in 650-ton open-hearth furnaces and refining the character of the effect on its technological factors (composition of slag, consumption of ore and limestone, etc.) data from 400 heats of steels St 3sp and 15R2S were analyzed. Results of the analysis confirmed the conclusion that the one factor having the greatest effect on the desulfuration of metal is the basicity of the slag. This was determined using equations expressing the distribution of sulfur between the slag and metal. Optimal values of slag basicity (almost 2.7) and the rate of its growth (almost 0.8 liters/hr), the increase of which did not lead to zny significant improvement of metal desulfuration, were established. In the existing technology of reducing 650-ton heats and the intensity of blowing the bath (4.5-6.0 m3/ton-hr), the optimum consumption of linestone in this period is 12-14 tons (1.9-2.2% of heat weight). Magnitude of the ratio %Fe0/%Ca0 = 0.3 provides a good assimilation of linestone and the best conditions for lowering sulfur content in the netal . Three figures, 3 bibliographic references. 1/1

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

SSR UDC: 539.43

SHETULOV, D. I., MAGIDOV, M. B., MYASNIKOV, A. M., SHIBAROV, V. V., and SOKOLOV, L. D., Gor'kiy

"Study of Hardening in the Process of Fatigue in Some Pure Metals"

Moscow, Izvestiya Akademii Nauk SSSR, Metally, no 6, Nov-Dec 70, pp 165-169

Abstract: Earlier research has shown that the capacity of netals to resist varying stresses is inversely related to their capacity to harden. under static stress. The coefficient of hardening is determined by the slope of the stress-strain curve (hardening curve). The slope of the fatigue curve demonstrates the capacity of materials to resist varying stresses "better" or "worse". The value of the slope of the hardening curve varies inversely with the packing defect energy (y), while the slope of the fatigue curve is a direct function of y. Described here is an attempt to correlate both of these characteristics. The metals involved in the study were Al, Cd, Zn, Cu, Fe, and Ti. The experimental results indicate that the inclinations of the fatigue curves to the X-axis correlate with the macking defect energy (7), i.e., the higher they, the steeper the slope. The slope of the fatigue curves is related to the slope of the hardening corver, i.e., the flatter the slope of the falligue curve, the skeeper the hardening curve. 1/1

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UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--ON THE CLINICAL PICTURE OF MONDOR'S DISEASE -U-

AUTHOR-(04)-VASILYEV, T.V., SHIBANOV, V.A., OVSYANNIKOV, L.M.,
TOPOROVSKIY, L.M.
COUNTRY OF INFO-11552

SOURCE--VESTNIK DERMATOLOGII I VENEROLOGII, 1970, NR 5, PP 68-71

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--REPRODUCTIVE SYSTEM, GENITOURINARY SYSTEM DISEASE, LESION. VENEREAL DISEASE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/2048

STEP NO--UR/0206/70/000/005/0068/0071

CIRC ACCESSION NO--AP0122277

UNCLASSIFIED

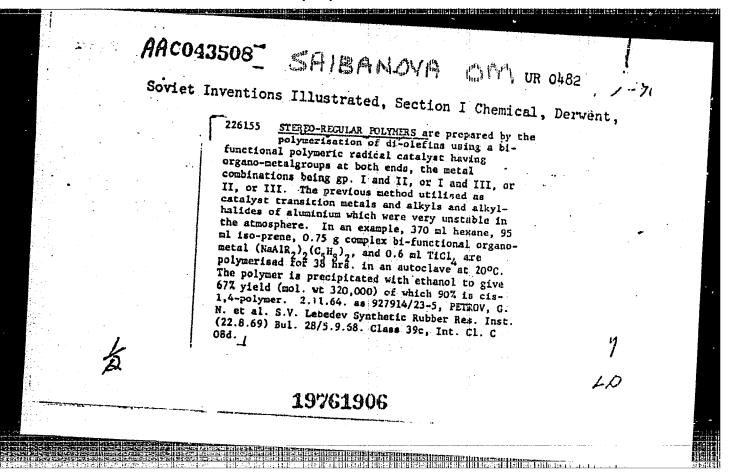
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ones de la computeración de la La contractión de la computeración de la computeración de la contractión de la contractión de la computeración

2/2 **UNCLASSIFIED** PROCESSING DATE--23GGT70 CIRC ACCESSION NO--APO122277 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. IN THE LAST 12 YEARS THE AUTHORS OBSERVED 13 PATIENTS WITH MONDOK'S DISEASE IN THE PENIS. CLINICAL MANIFESTATIONS OF THE DISEASE CONSISTED IN STRANDS IN THE INNER FOLD OF THE PREPUCE AND IN THE CORONAL SULCUS, OF DENSELY ELASTIC CONSISTANCE AND SLIGHTLY TENDER UPON PALPATION. SOMETIMES THE SURFACE OF THE SKIN ABOVE THE STRANDS UNDERWENT EROSION OR WAS ULCERATED AND IN THESE CASES THE CLINICAL PICTURE WAS SIMILAR TO THAT OF INDURATED CHANCRE. CAREFUL CLINICAL AND LABORATORY EXAMINATION IN THE HOSPITAL AND SUBSEQUENT CLINICAL SEROLOGICAL FOLLOW UP FOR 6-12 MONTHS PERMITTED TO EXCLUDE SYPHILIS, IN THESE PATIENTS COMPLETELY. IT IS EMPHASIZED THAT MONDOR'S DISEASE MAY NOT INFREQUENTLY SIMULATE PRIMARY SYPHILIS WHEN LOCALIZED IN THE PENIS. IN SUCH CASES A COMPLEX CLINICAL LABORATORY EXAMINATION MUST BE CARRIED OUT IN ORDER TO EXCLUDE SYPHILIS. FACILITY: OTDEL SIFILIDGLOGII TSENTRAL NOGO N-I KOZHNO-VENEROLOGICHESKOGO INSTITUTA MINISTERSTVA ZORAVDOKHRANENIYA SSSR I BOL'NITSA IM. V. G. KOROLENKO, MOSCOW.

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UDC: 621.317.77(088.8)

SHIBAYEV A.A. Tomsk Institute of Radio Electronics and Electronic Tech-

"A Digital Phase Meter With Constant Measurement Time"

USSR Author's Certificate No 256072, filed 29 Apr 68, published 19 Mar 70 (from RZh-Radiotekhnika, No 11, Nov 70, Abstract No I1A291 P)

Translation: This Author's Certificate introduces a digital phase meter with constant measurement time. The unit contains a measurement flip-flop, coincidence circuits, a scaling circuit, a pulse counter, a flip-flop which sets the measurement time, a generator of quantizing oscillations, and a frequency divider. To improve measurement precision, the phase meter is equipped with a low-frequency filter connected to the output of the measurement flip-flop, and a phase modulator connected between the quantizing oscillation generator

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UDC: 621.039.562.24

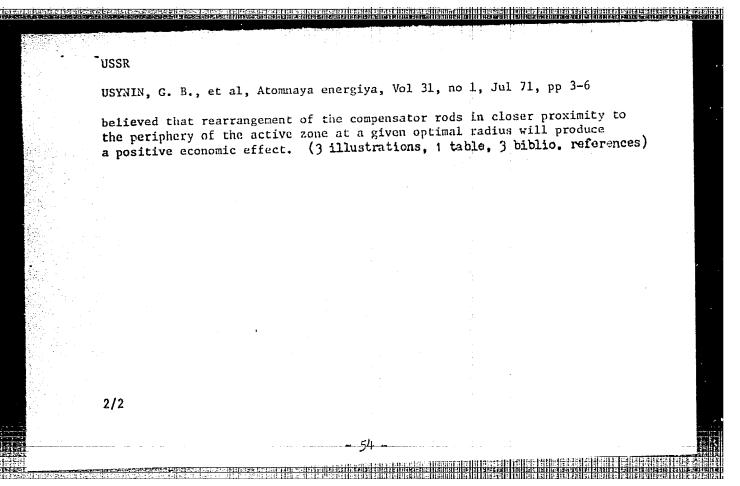
USYNIN, G. B., SHIBAYEV, V. A., and CHIRKOV, V. A.

"Stabilization of Specific Heat Release in A Fast Reactor Using Control Rods "

Moscow, Atomnaya energiya, Vol 31, no 1, Jul 71, pp 3-6

Abstract: The efficiency of fuel elements in a fast reactor depends largely on their temperature. The maximum load is generally concentrated on the fuel element casing. The reduction of the latter's temperature while maintaining the mean coolant temperature constant is therefore of great significance. This can be accomplished by distributing the coolant consumption rate according to the heat release curve along the reactor's radius. In ideal hydraulic designs the individual cells are heated equally and the average heating over the reactor concurs with the maximum heating of the coolant. In practice, however, such situations never materialize. The responsible factors are detailed and mathematical treatment of this and other closely related problems is presented. It is

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USSR

UDC: 621.396.2:621.371

SHIBAYEV, V. M., SHEVCHUK, R. M., NIKITIN, V. I.

"Experimental Investigation of Railroad Radio Communications Channels in the Case of Vertical and Horizontal Polarizations of Radio Waves in the 150 MHz Range"

Nauch. tr. Omsk. in-t inzh. zh.-d. transp. (Scientific Works. Omsk Institute of Railway Transportation Engineers), 1970, 119, pp 78-82 (from RZh-Radio-tekhnika, No 6, Jun 71, Abstract No 6A165)

Translation: It is found that the form of polarization of electromagnetic waves as they are propagated along electric railroads has no appreciable effect on signal attenuation; in the case of horizontal polarization, a signal has a narrower dynamic range of oscillations as compared with vertical polarization. The ZhR-5 receiver is taken as a basis for development of a logarithmic measuring device which can be used for automatic recording of signal and interference voltages. Resumé.

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UDC 542.91.547.455:547.1'118

SHIBAYEV, V. N., KUSOV, Yu. Yu., TROITSKIY, M. F., and KOCHETKOV, N. K., Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences USSR

"Chemistry of Glycosyl Phosphates and Their Derivatives. Communication 4. Phosphorylation of Benzoylated Glycosylacetates of the Phosphoric Acid and Synthesis of α - and β -Anomers of 4-0-Methylsulfonyl-D-galactopyranosyl Phosphate"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 8, Aug 73, pp 1862-1867

Abstract: The synthesis of α - and β -anomers of 4-0-methylsulfonyl-D-galactopyranosyl phosphate was carried out by fusion of 1-0-acetyl-2,3,6-tri-0-benzoyl-4-0-methylsulfonyl- β -D-galactopyranose with anhydrous $\rm H_3PO_4$. During phosphorylation of glycosylacetates containing a benzoyl group at C-2, the reaction products may be predominantly β -anomers of glycosyl phosphates. It was shown to be possible to use ion exchange chromatography for the separation of a mixture of anomers of the shielded glycosyl phosphates.

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UDC 542.91:547.455.547.1'118

SHIBAYEV, V. N., KUSOV, YU. YU., KUCHAR, SH., and KOCHETKOV, N. K., Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences USSR

"The Chemistry of Glycosyl Phosphates and Their Derivatives. Communication 2. The Synthesis of Deoxyglycosyl Phosphate Derivatives of 6-, 4-, and 3-Deoxy-D-Glucose"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, 1973, pp 430-434

Abstract: Synthesis of deoxyglycosyl phosphate derivatives of 6-, 4-, and 3-deoxy-D-glucose was achieved through fusion of the β -acetates of deoxysugars with anhydrous ${\rm H_3PO_4}$. Acetylation of deoxysugars was attained with ${\rm Ac_2O}$ in the presence of AcONa (100°, 2 h), and subsequent phosphorylation of the resultant β -tetracetates was performed with an 8-fold excess of ${\rm H_3PO_4}$ under vacuum at 50°. Deacetylation of the products with 1 N LiOH resulted in practically complete removal of inorganic phosphate as the lithium 1/3

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SHIBAYEV, V. N., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, 1973, pp 430-434

The resultant lpha- and eta-anomers of the deoxyglycosylphosphates were resolved by chromatography on a Dowex-1x8 (HCO-) column, by elution with a linear gradient of triethylammonium bicarbonate (pH 7.5). In this manner, the respective triethylammonium salts of 3-deoxy-X-D-ribohexopyranosyl phosphate (I), 3-deoxy- β -D-ribohexopyranosyl phosphate (II), 4-deoxy- α -Dxylohexopyranosyl phosphate (III), 4-deoxy-B-D-xylohexopyranosyl phosphate (IV), 6-deoxy-O-D-glucopyranosyl phosphate (V), 6-deoxy-B-D-glucopyranosyl phosphate (VI), X-D-glucopyranosyl phosphate (VII), and &-D-glucopyranosyl phosphate (VIII) were synthesized from the corresponding β -tetraacetates (1 and II from 1,2,4,6tetra-O-acetyl-3-deoxy-\(\beta\)-D-ribohexopyranose, III and IV from 1,2,3,6-tetra-0-acetyl-4-deoxy-\(\beta\)-D-xylohexopyranose, V and VI from 1,2,3,4-tetra-0-acetyl-6-deoxy-\(\beta\)-D-glucopyranose), and VII and VIII from 1,2,3,4,6-penta-0-acetyl- \beta-D-glucopyranose. The average yield of the deoxyglycosyl phosphates ranged from 35-40%, and formation of the α -anomer predominated under these conditions 2f3phosphorylation. In the case of the D-glucopyranosyl

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SHIBAYEV, V. N., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, 1973, pp 430-434

phosphates the ratios of X- and β -anomer were reversed, apparently due to the shorter phosphorylation times. Optical rotatory dispersion data and $[X]_D$ values were used to evaluate the configurations about C-1. Mobilities on paper electrophoresis were identical for the deoxyglycosyl phosphates and the X-D-glucopyranosyl phosphate (paper M, Leningrad Factory No. 2, 20-25 V/cm, 1 hr, 0.05 M triethylammonium bicarbonate buffer, pH 7.5), while the former showed greater mobilities on paper chromatography in two solvent systems.

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UDC 542.91:547.455:547.1'118

KOCHETKOV, N. K., SHIBAYEV, V. N., KUSOV, YU. YU., and TROITSKIY, M. F., Institute of Urganic Chemistry imeni N. D. Zelinskiy,

"The Chemistry of Glycosyl Phosphates and Their Derivatives. comication I. The Synthesis of 4-Thio-(X-D-Glucopyranosyl Com~

Moscow, Izv. Akad. Nauk SSR, Ser. Khimicheskaya, No 2, 1973,

Abstract: This is the first reported synthesis of 4-thio- α -Dglucopyranosyl phosphate (I). The reaction sequences leading to the synthesis of I were as follows: 5.6 g 2,3,6-tri-0-benzoy1-4-0methylsulfonyl- α -methyl-D-glucopyranoside and 4.8 g C₆h₅COSK were dissolved in 50 ml DMF and heated to 140°; the mixture was cooled, sediment removed, and the filtrate concentrated in vacuo. The resultant residue from the filtrate was dissolved in CNCl3, filtered through a column of activated charcoal, concentrated by vacuum evaporation, and recrystallized from absolute ethanol.

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KOCHETKOV, N. K., et al., Izv. Akad. Nauk SSR, Scr. Khimicheskaya, No 2, 1973, pp 425-430

Three and eight tenths g (64%) of 2,3,6-tri-0-benzoyl-4-thio-4-S-benzoyl-X-methyl-D-glucopyranoside (II) were obtained. The structure of II was confirmed by IN spectra. Subsequently, 1 g II was treated with 50% HBr in glacial AcOH (20 ml); the suspension was stirred for 24 h at 200, poured into 20 ml of glacial AcOH, and extracted three times with 50 ml CHCl₃. The extract was washed with NaHCO₃, ice water, dried over MgSO₄, concentrated by evaporation, and yielded 0.95 g of 2,3,6-tri-0-benzoyl-4-thio-4-S-benzoyl-graphically homogenous III was dissolved in 10 ml CHCl₃ (alcohol free), and 0.5 g AgOAc added. The suspension was stirred 24 h, residue recrystallized from abs. ethanol to yield 0.32 g (64.5%) pyranose (IV) [m.p. 129-1320, [X]²⁰ + 56.5°]. In and PMR spectra confirmed IV. 0.2 g IV were then phosphorylated with 0.21 g crystalline H₃PO₄ in vacuum for 3 h at 50°, the mixture cooled,

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- KOCHETKOV, N. K., et al., Izv. Akad. Nauk SSR, Ser. Khimicheskaya, No 2, 1973, pp 425-430

5 g crushed ice added, and extracted with CHCl₃ containing 0.8 ml trioctylamine. The CHCl₃ extract was concentrated by evaporation, applied to a Dower-lx4 (HCO₃) column, and eluted with a linear gradient (0.1-0.5 M) of a water-methanol solution of triethyl-ammonium bicarbonate. Fractions containing organic phosphorus were 2,3.6-tri-0-benzoyl-4-thio-4-S-benzoyl-\(\Omega-\text{D-glucopyranosyl phosedbenzoylated with 3 ml CH₃ONa in argon saturated methanol for 48 hr at 0°. The mixture was filtered through a Dowex-50 xolumn (H⁺), water, washed with ether, and rapidly evaporated, dissolved in cold was obtained in a yield of 1.83 g (79%); [\(\Omega\)]^{20} + 60.5°.

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UNCLASSIFIED

PRUCESSING DATE-- SUULITU

TITLE—ANALOGS OF CARBOHYCRATE METABOLISM COENZYMES. 15 SYNTHESIS OF URIDINE 5 PRIME, -4, DEGXY, D, XYLO, HEXOSYLPYROPHOSPHATE -U-

AUTHOR-(04)-KOCHETKOV, N.K., BUDDVSKIY, E.I., SHIBAYEV, V.N., KUSOV,

YU.YU.

CCUNTRY OF INFO-USSR

SDURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (2), 404-11

DATE PUBLISHED ----- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--COENZYME. CARBOHYDRATE METABOLISM, CHEMICAL SYNTHESIS

CONTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/0430

STEP. NO--UR/0062/70/000/002/0404/0411

CIRC ACCESSION NO--AP0128001

UNCLASSIFIED

PROCESSING DATE--300CT70 UNCLASSIFIED 020 ABSTRACT. ME ALPHA, D. GALACTOSTDE IN PYRIDINE 2/2 CIRC ACCESSION NO-AP0128001 TREATED WITH BZCL AT MINUS 40DEGREES, THEN WARNED TO ROOM TEMP. GAVE ABSTRACT/EXTRACT--(U) GP-0-68PERCENT 2,3,6-TRIBENZUATE, M. 137-8CEGREES WHICH WITH MESO SUB2 CL 1N D, (METHYLSULFONYL), ALPHA, D, GALACTOPYRANDSIDE, M. 143.5-45DEGREES, WHICH WITH KSCN IN DMF 2 DAYS AT 140DEGREES GAVE 65.6PERCENT ME 2,3,6,TRI,0, BENZOYL, 4, DEOXY, 4, THIOCYAND, ALPHA, D, GLUCOPYRANOSIDE, M. 192-2.5DEGREES, WHICH INHOT ETCH WITH RANEY NIBS HR THEN TREATED WITH ME, ONA, MECH AND KEPT 15 HR GAVE 77PERCENT ME 4, DEUXY, ALPHA, D, XYLO, HEXOPYRANDSIDE, M. 88-9.5DEGREES, WHICH HEATED INTH DOWEX-50 RESIN IN H FORM IN H SUB2 O 8.5 HR GAVE 61PERCENT 4.DEGXY.D.XYLO.HEXOSE, M. 125- 7DEGREES. 4. DEOXY.D.XYLG. HEXOPYRANOSE IN PYRIDINE WITH AC SUBZ O IN CHCL SUB3 AT 0-4DEGREES 43 HR GAVE 1,2,3,6-TETRA,0,AGETHL,4,DEDRY, D.XYLO, HEXOPYRANOSE, M. 105-7 DEGREES, WHICH IN ACOH AT ODEGREES WITH 40PERCENT HBR IN ACOH GAVE IN 3 HR AT ROOM TEMP. 96PERCENT 2.3.6.TRI.O.ACETYL, 3.DEUXY, ALPHA, D. XYLO, HEXOPYRANUSYL BROMIDE, A SYRUP, WHICH WITH (PHO) SUB2 PO SUB2 AG IN C SUB6 H SUB6 REFLUXED 2 DAYS IN THE DARK GAVE 42PERCENT SYRUPY DIPHENYL PHOSPHATE, WHICH WAS DIRECTLY HYDROGENATEC OVER PT IN MECH TO 4, DEOXY, ALPHA, D, XYLD, HEXOPYRANOSYL PHOSPHATE, ISOLATED AS THE NH SUB4 SALT AND THE ET SUB3 N SALT. THE LATTER WITH URIDINE 5 PRIME. PHOSPHOMORPHOLIDE ET SUB3 N SALT IN ME SUB2 SO.C SUB6 H SUB6 W HR AT GODEGREES GAVE PURE URIDINE 5 PRIME, (4, DEDXY, D, XYLO, HEXOPYRANDSYLPYROPHOSPHATE) (1), A NEW ANALOG OF FACILITY: INST. DRG. KHIM. IN. "UDPG." G. M. KOSULAPOFF. ZELINSKOGO, MOSCOW, USSR. UNCLASSIFIED

1/2

PROCESSING DATE--27NOV70

TITLE--STRUCTURE OF POLYMERS WITH LONG SIDE BRANCHES -U-AUTHOR-1031-ZUBOV, YU.A., PETRUKHIN, B.S., SHIBAYEV, V.P.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12(4), 290-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--X RAY ANALYSIS, MOLECULAR STRUCTURE, MODEL, CRYSTAL STRUCTURE,

CONTROL MARKING--NO RESTRICTIONS

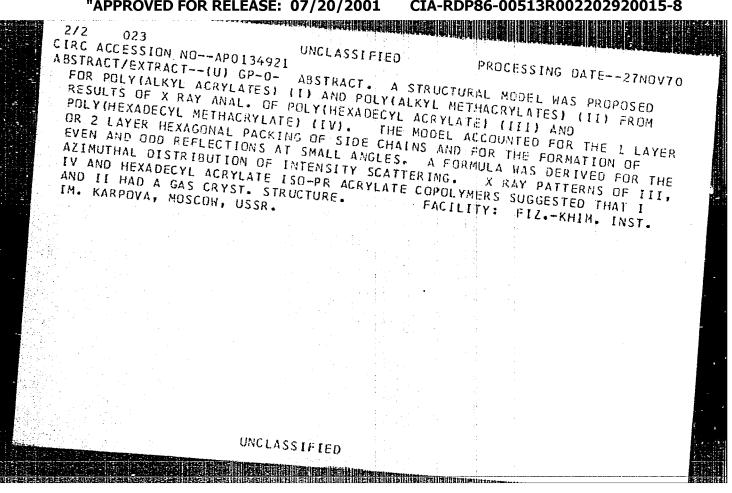
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1247

STEP NO--UR/0460/70/012/004/0290/0294

CIRC ACCESSION NO--APO134921

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"



1/2 TITLE--STRUCTURE AND PHASE TRANSITIONS IN LONG CHAIN CRYSTALLINE VINYL PROCESSING DATE--020CT70 AUTHOR-(03)-PETRUKHIN, B.S., SHIRAYEV, V.P., PLATE, N.A. COUNTRY OF INFO--USSR SOURCE--VYSGROMOL. SOEDIN., SER. A 1970 12(3) 687-91 DATE PUBLISHED ----- 70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--ACRYLATE, STEARIC ACID, ESTER, MONOMER, CHEMICAL SYNTHESIS, X RAY DIFFRACTION, IR SPECTRUM, CRYSTAL, PHASE TRANSITION CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME+-1992/0308 STEP NO--UR/0459/70/012/003/0687/0691 CIRC ACCESSION NO-APOILISO2 UNCLASSIFIED

2/2 031 UNCLASSIFIED PROCESSING DATE--020CT70 CIRC ACCESSION NO--APOLITION ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. C SUB16-18 ALKYL ACRYLATES (1). CETYL METHACRYLATE (III). AND VINYL STEARATE (III) WERE PREPD. BY METHODS DESCRIBED EARLIER (S., ET AL., 1968). X RAY DIFFRACTOMETRY, THERMOGRAPHY. AND IR SPECTROSCOPY SHOWED THAT THESE MONOMERS EXIST IN SEVERAL CRYSTALLOGRAPHIC FORMS. I HAVE HEXAGONAL AND TRICLINIC CRYSTALS, II IS TRICLINIC, AND III IS RHOMBIC. THE HEXAGONAL FORM OF I IS STABLE TO SIMILAR TO LODEGREES BELOW ITS M.P. ONLY WITH A C SUB17 ALKYL GROUP. OTHER I DURING STORAGE ARE TRANSFORMED INTO TRICLINIC FORMS. UNCLASSIFIED

Acc. Nr. APO048842 Abstracting Service: 5-70 Ref. Code CHEMICAL ABST. 5-70 UR0459

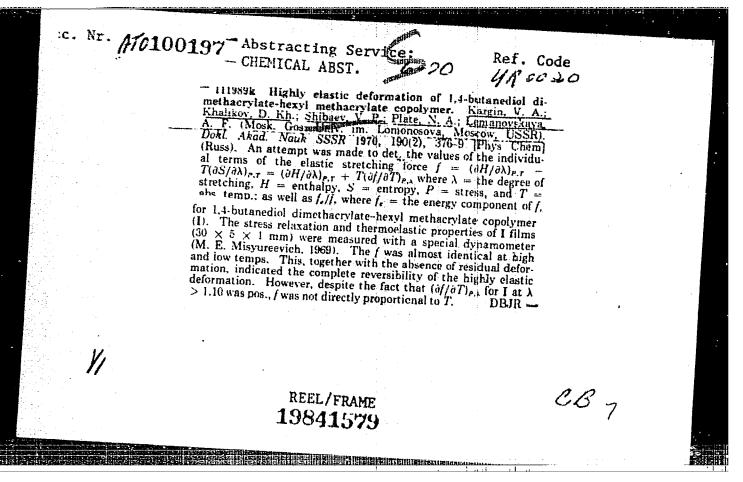
structure of crystalline polymers and copolymers with long side branches. Shibaev V. P.: Petrukhin, B. S.: Plate, N. A.: Karsin, V. A. (Albek, Gres. Univ. im. Lomonosova, Moscow, USSH). Vysokomoid. Soedin. Ser. A 1970, 12(1), 140-8 (Russ). X-ray diffractometric data, thermogravimetry, and detns, of m.p., entropy (\Delta S) and enthalpy (\Delta H) of melting show that in atactic or isotactic title polymers (1) the character of the side chain packing is detd, by the flexibility of the main chain. Polyvinyl stearate), poly(n-heptadecyl acrylate), poly(n-octadecyl acrylate), and poly(hexadecyl acrylate) have relatively high m.p., as, \Delta H, and 2-layer side chain packing. Poly(hexadecyl methacrylate) and hexadecyl acrylate-iso-Pr acrylate copolymer have relatively low m.p., \Delta S, \Delta H, and single-layer side chain packing. CPJR.

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USSR

UDC: 534.232

SHIBAYEVA. A. V., POPKO, G. I., SHCHERBAK, Yu. M., Belorussian "Order of the Red Banner of Labor" State University imeni V. I. Lenin

"A Method of Making Thin-Film Ultrasonic Transducers"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovnrnyye Znaki, No 7, Mar 72, Author's Certificate No 329653, Division H, filed 11 Apr 70, published 9 Feb 72, p 221

Translation: This Author's Certificate introduces a method of making thin-film ultrasonic transducers. The procedure is based on vacuum vaporization of material. As a distinguishing feature of the patent, the reliability of the transducers is improved and their resistance to mechanical effects is increased while simplifying the manufacturing technique at the same time by using selenium as the initial material.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

Acc. Nr: Abstracting Service: CHEMICAL ABST. 4-70

Ref. Code: UK 0000

71811n Crystal structure of the 1:2-complex of bis(toluene)-chromium and 7,7,8,8-tetracyanoquinodimethan, $[(C_0H_1,CH_2)_1-C_1]^+(C_{12}H_1N_4)^-(C_{12}H_1N_4)$. Shibaeva, R. P. Atoumyan, L. O.; Orfanova, M. N. (Inst. Chem. Phys., Moscow, USSR). J. Czem. Soc. D 1969, (24), 1494 (Eng). Crystals of $[(PhMe)_1-C_1]^+TCNQ^-TCNQ^2$ (I) where TCNQ = 7,7,8,8-tetracyano-quinodimethan = TCNQ, are dark violet needles developed along the b axis, and are triclinic, space group P1, with a 8.25, b 7.76, c 13.77 Å, α 94.7°, β 92.3°, γ 112.5°; Z = 1 and the calcd. d. = 1.32. The sp. resistance of I single crystals is 0.5 olm/cm with an activation energy of 0.08 eV. The structure of I consists of stacks of bis(toluene)chromium cations and stacks of alternate $TCNQ^-$ and $TCNQ^0$, with interplanar spacings of 3.29 Å.

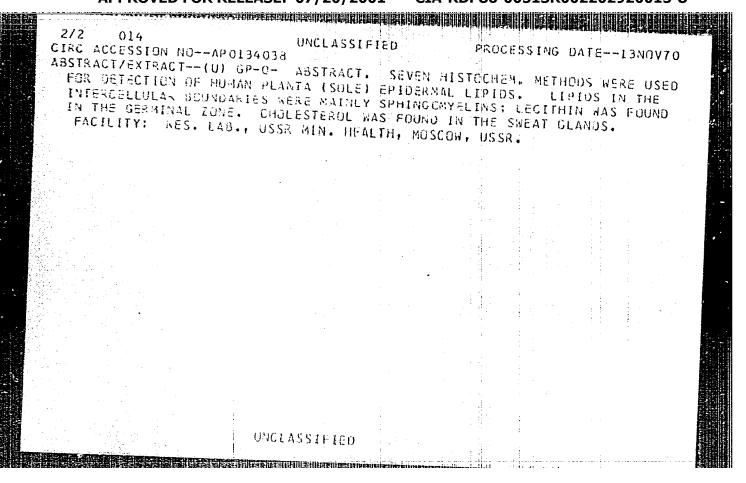
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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

1/2. 014 TITLE--EPIDERMAL LIPIDS -U-UNCLASSIFIED PROCESSING DATE--13NOV70 AUTHUR--SHIBAYEVA, S.M. CCUNTRY OF INFO--USSR SOURCE--ARKH. ANAT., GISTOL. EMBRIOL. 1970, 58(2), 71-5 DATE PUBLISHED ----- 70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--SWEAT GLAND, CHOLESTERCL, LIPID, HISTOCHEMISTRY CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0233 STEP NO--UR/9076/70/058/002/0071/0075 CIRC ACCESSIUN NO--AP0134038 UNCLASSIFIED The superior of the superior o



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CHERKASOV, I. S., Doctor of Medical Sciences, SHIRTINSKAYA, M. I., Docent, KOBOZEVA, Q. I., Candidate of Medical Sciences, RADKOVSKAYA, A. YA., and IL'YASHENKO, A. P., Physician, Chair of Eye Diseases, Clessa Medical Institute and Basseynova Hospital for Mariners

"Hydrodynamics of the Eye and Vascular Pressure in Healthy Man During Hyperbaric Oxygenation"

Odessa, Oftal mologicheskiy Zhurnal, No 8, 1971, pp 575-577

Abstract: The investigation was performed on 10 healthy subjects aged 18-34, in a 4.5 m³ pressure chamber which was continuously ventilated to maintain oxygen concentration at 40-60% under conditions of normal temperature, humidity and CO₂, and at a pressure of 2.5 atm. The following determinations and calculations were performed: tonography, blood pressure in the brachial artery and in the central artery of the retine, average dynamic arterial pressure, the retine-brachial coefficient, and the coefficient of Lobstein. The results revealed that hyperbaric oxygenation produces no significant changes in the hydro- and hemodynamics in the eyes of healthy individuals. A small decrease in intraocular fluid secretion and intraocular pressure occurred during exposure to 2.5 atm. After decompression, production of the intraocular fluid was increased somewhat due to a greater blood flow, but soon returned to normal.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

UDG 537.311:546.28

MAKAREVICH, A.I., RAYNES, L.YU., SHIBKO, L.S.

"Effect Of Pile Radiation On High-Resistance Silicon"

V sb. Radiatsion. fiz. nemet. kristallov (Radiation Physics Of Nonmetal Crystals-Collection Of Works), Minsk, Nauka i tekhn., 1970, pp 18-21 (from RZh-Elektronika i yeye primeneniye, No 1, January 1971, Abstract No 1850)

Translation: The effect is investigated of pile radiation on high-resistance p-type Si It is shown that with comparatively small doses of fast neutrons (10¹² n/cm²), defects are formed in high resistance Si which gives rise to the appearance in the forbidden band of the energy levels E, + 0.27, a complex of primary defect impurity, and an accumulation of defects are respectively responsible for these levels. 7 ref. Summary.

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SHIBKOV, A. A., "Meditoima," 1970, pp 192

the entire period since the appearance of publications of a military-medical nature, i.e., from 1700 to the present. This bibliographic reference book contains information on all the books and brochures of a military-medical nature located by the author (monographs, handbooks, textbooks, training aids, official instructions, specialized collections of schemulfic works, etc.). It is arranged according to the fundamental branches of military medicine and clearly demonstrates the richness and variety of publications reflecting the development of scientific thought and the demands of practice in a given field. It is very good that the author of the guilebook included in it all of the more or less large bibliographic indexes by which he significantly extended the possibilities for evientation of the reader. There can be no doubt that the "Short Bibliographic Galle" by A. A. Shibkey wall assist not only beginners but also mature schentific workers studying the various problems of military medicine to orient themselves in the profusion of sources in the literature and to choose the works which they need. To a larger degree, this guide book will render immense service to the historians of military medicino, inserved as it testifies, with sufficient clausty, to the inception and development of various aduks, tendencies and polomialis schools in the sphere of

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Leningrad, "Meditsina," 1970. pp 192

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25 a matter of fact, until the present time are factors. which same der the or the demonstra military marical literature. The biolingraphic which constitute and the constitute maintained only small spheres of military indicates which appeared in the party representation only and the spheres of military relicing (for inchance, the information of the 5. Bearing the remined wouldn't form Ivanov, and outside, or they covered a relatively brief historical period of the instance, the bibliography properties by i.e. D. Rekerov covering the Region of the marker of the marker to the Hacent ABBURROUS, OTH DECEMBER OF THE AUTHORITHM OF THE PRESENT AS CARCOLLED OF THE AUTHORITHM OF THE CARCOLLED OF THE AUTHORITHM OF THE AUTHORIT

SHIBKOV, A. A., "Meditsins," 1970, pp 192

military medicine. However, let the reader himself express his opinion concerning the virtues of the bibliographic guide.

A. S. Georgiyevskiy, Professor, Lt. Gen Med Serv

Oct 1968

INTRODUCTION

Russian military-modical literature bogan to appear in print at, the beginning of the leth century. Its history has continued for more than 2-1/2 centuries, but it entered the mainstream only after the Great October Secialist Royolution. The successes in developing social oconomy, science, and medical education during the years of Soviet rule have insured a rapid growth of all phases of medical and, among them, military-medical Literature. In connection with the large volume of Russian military-medical literature and the gaps in its bibliography, it is not always easy to find the necessary book in that profile. Contemporary bibliography on demonstrate while many on the day (under the Tears and in Sevent Remoils) shows literature appearing only at oracl historical stages and predominently on separate specialties. The search for work on military medicine published over a period of 3/8

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SHIBKOV, A. A., "Medifesina," 1970, pp 192

268 years necessiveful great efforts. Voluminous card indexes and dozens of published bibliographies on medicine, scrutinized in the libraries of Leningrad and Moscow, produced no impression of an integrated literature on demestic military medicine, particularly during the pre-Soviet period. Acquaintance with author indexes on medical literature in numerous books and journals published in our country during various periods made it possible to fill in the bibliographical gaps to some extent. In this marner the continuity of the basic desestic militarymedical literature published at various historical periods from its inception to our days was established. With a view to popularizing the bibliography on domestic military medicine, we indicate here among the books not only strictly bibliographical works but also the larger author indexes of that literature printed in monographs and journals. Practice shows that it is not always possible to draw a sharp line between the literature on general medicine and that on military medicine, since they frequently are closely interconnected. If the published work concerns prophylactic measures, incidence, and treatment of diseases frequently encountered among a given contingent of those in the military service and is connected with the conditions of their work, then we have included it in the branch of military-mandoni labora wire. 4/8

CIA-RDP86-00513R002202920015-8" **APPROVED FOR RELEASE: 07/20/2001**

The present guido does not centain the names of articles, lectures, or literature of limited extent (for official use, etc.), or of popular science brochures, memoirs, minor instructions, methodology, and educational programs. Only those dissertations are shown which were published as a separate book. Information on CLUBERGAULOND ARD DROWN WHICH WE'RE PROJECTIVE AS A DEPOSITION BOOK. INFORMATION OF SCIENTIFIC CONFERENCES ARE SCIENTIFIC WORKS, COLLECTIVE WORKS, AND PROCESSINGS OF SCIENTIFIC CONFERENCES ARE shown here only for historical review and themstic publidations of a strictly shown here only for alsocitual review and themsele publications of a strictly military medical profile. In this short guide we adopted an abbroviated version of bibliographic information which is which the contemporary Soviet scientific literature, i.e., the publisher, scientific titles of the author or editor, and the number of pages in the book are not indicated. For the convenience of readers, we have also marked small brochures with an asterisk. These embody the original methodological aids, lectures, and brief descriptions of prominent figures in domestic military medicine. Erevity of bibliographic annotations has made it rossible to put into this miniature guide the names of books, brochures, and journals for almost all of the basic Russian military-madical publishers which were issued from 1700 to 1958. Title pages included in the guide direct the nero reason from alou ou rout. Those pages increased in one funds cared the attention of the reader to the primary sources of little time in each branch of military medicine during the period of its formation as a separate discipline.

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Phytology

UDC 652.934.1:582.288.42:633.511

POPOV, V. I., SHIBKOVA, H. A., and TKACHENKO, N. P., All Union Scientific Research
Tristitute of Plant Protection. Leningrad Institute of Plant Protection, Leningrad

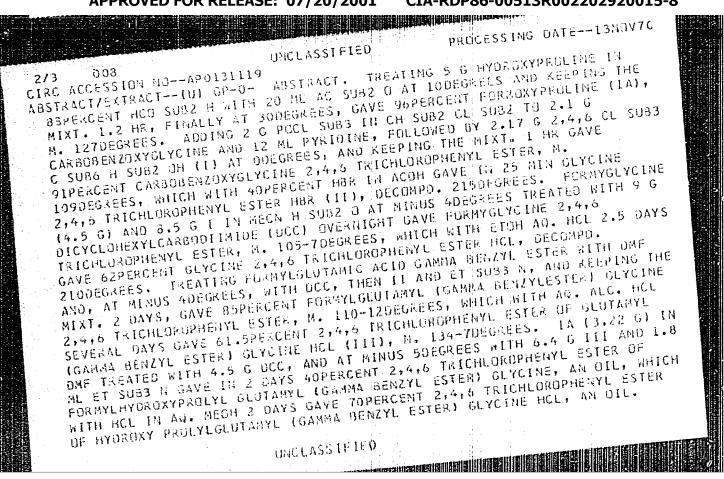
"The Effectiveness of the Fungicide Benleit Against Verticillium Wilt of Cotton"

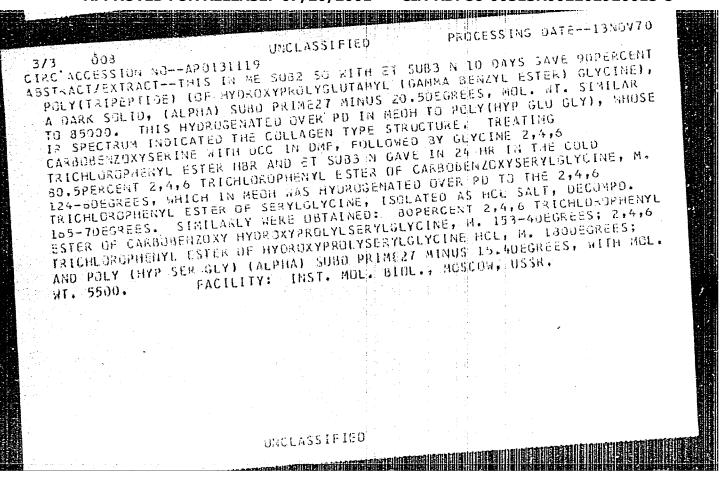
Leningrad, Mikologiya i Fitopathologia, Vol 4, No 2, 1970, pp 193-200

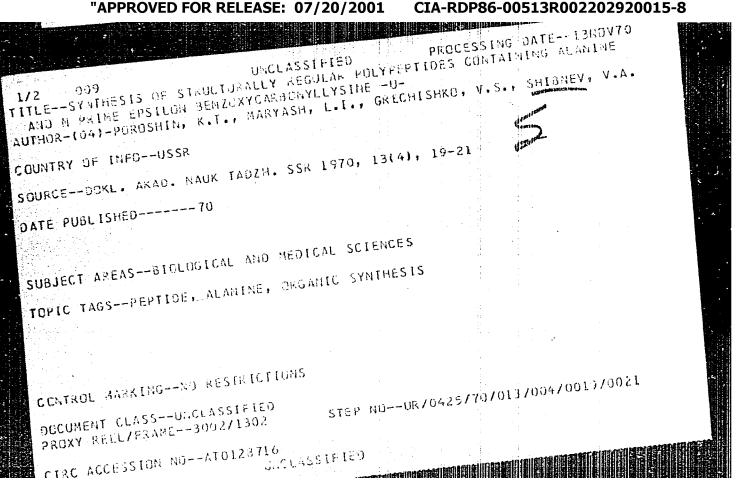
Abstract: The activity of benleit (Dupont) with respect to Verticillium dahlice, a variety of cotton wilt, was estimated. Direct application of a benleit solution of 50 mg/kg to cultures of the wilt pathogen completely destroyed mycelium and vi 70 mg/re to cultures of the will parisonal complicatly described myterial materials and the seeds by the adhesive method was 100% rendered the medium sterile. Treating the seeds by the adhesive method was 100% and rendered the medical business including the besus by the admissive method was 100% effective. Treating the soil with various doses of benieft prior to planting was also effective. The most significant experiment consisted of treatment of the soil with benleit in an amount of 80 g/kg 30 days prior to planting, followed by injection of the nathogen date plants which remained completely methods. tion of the pathogen into plants, which remained completely protected. Since the rion of the pathogen into plants, which remained completely protected. Since the pathogen was not in direct contact with the fungicide, it was concluded that the pathogen was not in direct contact with the fungicide, it is to the plant the foot and contact the funcional transfer the funcional transfer the funcional form the foot and contact in the funcional function of the function of the function of the funcional function of the function of the function of the funcional function of the parangen was not in unrect contract with the soil, and carried it into the plant, plant roots absorbed the fungicide from the soil, and carried it into the plant, where it killed the injected pathogen. It is therefore the first systemic function of the pathogen and months and and another pathogen. cide effectively inhibiting cotton wilt 100%, and merits further field study with other plants.

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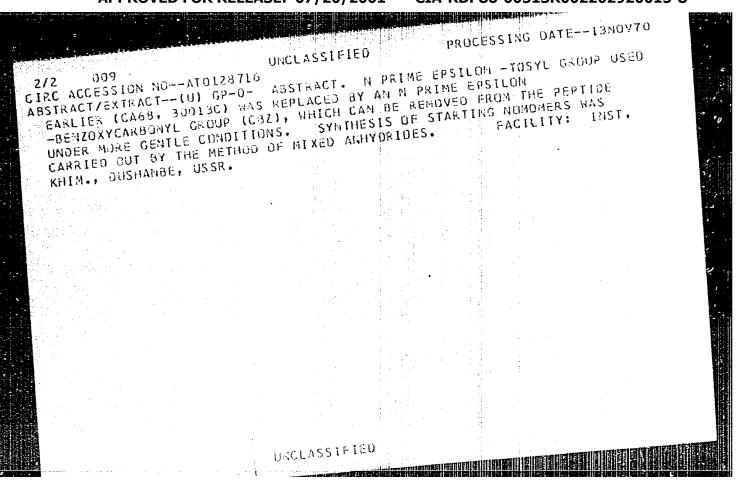
PROCESSING DATE--13NOV70 TITLE--SYNTHESIS OF POLYPERTIDES OF REGULAR STRUCTURE CONTAINING SERINC AND GLUTAMIC ACID, AND MEDELING MONPOLAR REGIONS OF THE COLLAGEN PROTEIN AUTHOR-104)-SHIBNEY, V.A., KHALIKOV, SH.KH., FINOGENOVA, M.P., POROSHIN, COUNTRY OF INFO--USSR oguspaga dan SCURCE--12V. AKAO. NAUK SSSR. SER. KH14. 1970, (4), 880-5 DATE PUBLISHED-----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--PEPTIDE, CHEMICAL SYNTHESIS, AMING ACID, COLLAGEN CENTROL MARKING--NO RESTRICTIONS STEP NO--UR/0062/70/000/004/0880/0885 OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0482 CIRC ACCESSION NO--APOISING UNICLASSIFIED







CIA-RDP86-00513R002202920015-8" APPROVED FOR RELEASE: 07/20/2001



PROCESSING DATE--13NOV70 UNCLASSIFIED TITLE-USE OF VARIOUS ACTIVATED ESTERS IN THE SYNTHESIS OF REGULAR POLYPEPTIDES, AND THEIR COMPARATIVE EVALUATION -U-AUTHOR-(03)-SHIGNEY, V.A., CHUVAYEVA, T.P., POROSHIN, K.T. CCUNTRY OF INFO--USSR SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (1), 121P9 DATE PUBLISHED----70 SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--ESTER, PEPTIDE CENTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0062/70/000/001/0121/0129 PROXY REEL/FRAME--1986/1922 CIRC ACCESSION NO--AP0103649 UNCLASSIFIED

PROCESSING DATE-- L3NOV70 UNCLASSIFIED 007 CIRC ACCESSION NO--AP0103649 IN THE SYNTHESIS OF POLYPEPTIDES ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. WITH REGULAR CHAIN STRUCTURE, THE HIGHEST MOL. WTS. HERE OBTAINED VIA THE PENTACHLOROPHENYL ESTERS, FOLLOWED IN TURN BY: N, HYDROXYSUCCININIDYL, 2,4,5, TRICHLOROPHENYL, 2,4,6, TRICHLOROPHENYL, RHO, NITROPHENYL, 3. HYDROXYPYRIDYL, PENTAFLUOROPHENYL, AND 8, HYDROXYQUINOLYL ESTERS. HOWEVER OWING TO LOW SOLY. OF MANY POLYPEPTIDES WITH RELATIVELY LARGE MOL. WI., THE DESTRABILITY OF IMPROVED SOLY. DURING THE HANDLING MAKES 2,4,5,TRICHLORUPHENYL AND N. HYDROXY SUCCINIMIDYL ESTERS VALUABLE. THE REACTION WAS APPLIED TO THE INDICATED ESTERS OF HBR OR HCL SALTS OF GLYCYLPROLYLGLYCINE OR THE ANALOG OF GLYCYLHYDROXYPROLYLHYDROXYPROLINE, AS WELL AS THE GLYCYLPROLYLHYDROXYPROLINE ANALOG. THE REACTIONS WERE RUN IN ME SUB2 SO IN THE PRESENCE OF ET SUB3 N AT ROOM TEMP. SEVERAL DAYS. BY THIS METHOD THE PENTACHLOROPHENYL ESTER YIELDED POLYMERIC POLYPEPTIDES OF INDICATED MOL. WIS.: GLY-HYP-HYP OVER 15,000 AND REACHING 160,000; GLY-PRO-HYP 100,000: GLY-ALA-HYP OVER 25,000. UNCLASSIFIED

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UNCLASSIFIED PROCESSING DATE--230CT70

TITLE--SYNTHESIS OF POLY, GLYCL, SEPYL, HYDROXYPROLINE AND

POLY, GLYCYL, SERYL, PROLINE POLYPEPTIDES USING PENTACHLOR OPHENYL ESTERS

AUTHOR-(04)-SHIBNEV, V.A., KHALIKOV, SH.KH., FINOGENOVA, M.P., POROSHIN,

K.T.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (2), 399-404

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CHEMICAL SYNTHESIS, PEPTIDE, POLYMER, PROLINE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0816

STEP NO--UR/0062/70/000/002/0399/0404

CIRC ACCESSION NO--APOL19722

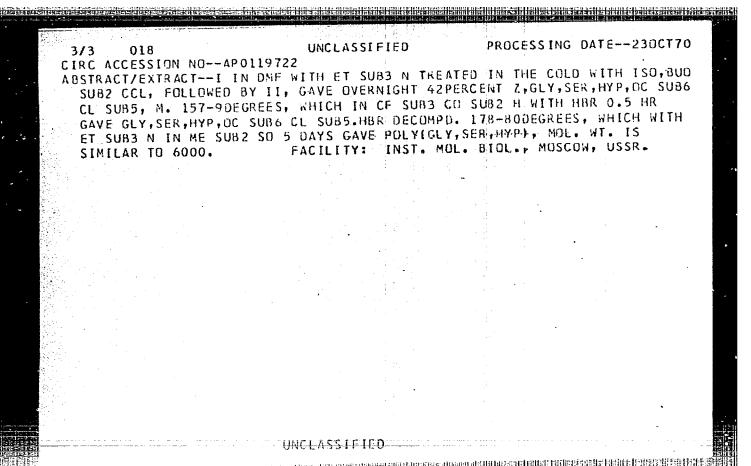
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2/3 018 UNCLASSIFIED PROCESSING DATE--230CT70
CIRC ACCESSION NO--APOL19722
ARSTRACT AND CARDON ARSTRACT A FORMALS CARBONENZOXY THROUGHOUT.

ABSTRACT. Z EQUALS CARBOBENZOXY THROUGHOUT. ABSTRACT/EXTRACT--(U) GP-0-TO 5 G SERINE IN 25 ML SN NAOH WAS ADDED AT NEGATIVESDEGREES OVER 1 HR 22.5 ML 2N NAOH AND 11.5 G Z,GLY,CL AT PH 8-9, AND THE MIXT. WARMED TO SDEGREES AND KEPT 40 MIN TO YIELD 48.5PERCENT Z,GLY,SER (I), M. 98-101DEGREES. Z.PRO IN ETOAC AT NEGATIVE6DEGREES WAS TREATED WITH DICYCLOHEXYLCARBODIIMIDE (DCC) AND C SUB6 CL SUB5 OH TO YIELD AFTER 1 DAY, FINALLY AT ROOM TEMP., Z,PRO,OC SUB6,CL SUB5, OIL, (ALPHA) PRIME22 O NEGATIVE40.3DEGREES, WHICH IN ACOH TREATED WITH 40PERCENT HOR IN ACOH AT NEGATIVEZODEGREES 0.5 HR GAVE PROJOC SUB6 CL SUB5, M. 112-14DEGREES, WHICH WITH DCC IN DMF CONVERTED I IN 1 DAY, FINALLY AT ROOM TEMP., INTO 67.5PERCENTZ, GLY, SER, PRO, OC SUB6 CL SUB5, M. 112-14DEGREES, WHICH WAS HYDROGENATED OVER PO IN MEDH, ETOH, HCL TO GLY, SER, PRO, OC SUB6 CL SUB5.HCL, M. 170DEGREES; HBR IN MEND SUB2 IN 20 MIN SIMILARLY GAVE THE CORRESPONDING HBR SALT, M. 187-9DEGREES. THE LATTER IN ME SUB2 SO WITH ET SUB3 N IN 7 DAYS IN A SEALED TUBE GAVE SOL. AND INSOL. PRODUCTS, IDENTIFIED AS POLY(GLY, SER, PRO), MOL. WT. UP TO 2500. Z, HYP IN THE WITH ISD, BUD SUB2 CCL AND ET SUB3 N, FOLLOWED BY C SUB6 CH SUB5 OH GAVE 89PERCENT PENTACHLOROPHENYL ESTER, M. 162-4DEGREES, WHICH WITH HOR IN MEND SUB2 AT NEGATIVESDEGREES 20 MIN GAVE HYP+0C SUB6 CL SUB5. HBR (III.HBR), DECOMPO. 210DEGREES.

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UDC 577.4

KARAGODOVA, YE. A., HITSMAKHER, YU. D., BOSIS, A. I., SHIBBIE L. V.

"An Algorithm for Optimal Distribution of Resources"

Vychisl. i prikl. mat. Mezhved. nauch. sb. (Computation and Applied Mathematics. Interdepartmental Scientific Collection), 1972, vyp. 16, pp 99-103 (from EZh-Kibernetika, No 7, Jul 72, Abstract No 7V516)

Translation: A version of the R. Bellman method is discussed for optimizing the distribution of limited resources of a specialized construction organization. The computation flow chart of the algorithm and an example are presented.

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UNCLASSIFIED

PROCESSING DATE--160CT70 TITLE--POTATGES AS AN IMPORTANT SOURCE OF THE VITAMIN C SUPPLY IN THE

NORTH -U-

AUTHOR-(02)-SHIBRYA, G.I., POTAPOV, F.F.

COUNTRY OF INFO--USSR

SOURCE-VUPROSY PITANIYA, 1970, NR 3, PP 54-57

DATE PUBLISHED---- 70

SUBJECT AREAS-AGRICULTURE, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--VEGETABLE CROP, ASCORBIC ACID, SOIL CHEMISTRY, CLIMATIC INFLUENCE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0004

STEP NO--UR/0244/T0/000/003/0054/0057

CIRC ACCESSION NO--APO120704

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PROCESSING DATE--160CT70 CIRC ACCESSION NO--AP0120704 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE OUTCOME OF INVESTIGATIONS INTO THE VITAMIN C CONTENT IN TUBERS OF 47 REGIONAL POTATO VARIETIES CARRIED OVER A PERIOD OF MANY YEARS (1964-1967) IS REPORTED. THESE HELPED TO SINGLE OUT 12 POTATO VARIETIES WITH AN ANNUALLY RECURRENT HIGH VITAMIN C CONCENTRATION IN THE TUBERS. AN ELEVATED VITAMIN C LEVEL IN THE TUBERS INHERENT IN THESE POTATO VARIETIES PERSISTS WHEN THE LATTER ARE CULTIVATED IN AREAS WITH DIFFERENT SOIL AND CLIMIATIC CONDITIONS. FINDINGS AND THE DATA DERIVED FROM LITERATURE SOURCES PROMPT THE AUTHORS TO CONCLUDE THAT CULTIVATION OF POTATO VIRIETIES RICH IN VITAMIN, SUCH AS FALENSKY, DRUZHBA, SEVERNAYA ROZA AND KORENEVSKY, IN THE AREAS OF NONCHERNOZEM ZONE LYING FARTHER NORTH (IVANOVSKAYA, GORKOVSKAYA, KIROVSKAYA AND OTHER REGIONS) AND SUPPLY OF SUCH POTATO VARIETIES TO NORTHER AREAS WILL ENABLE THE VITAMIN C CONTENT IN THE DIET OF FACILITY: VSES. N-I INSTITUT NORTHERNERS TO BE INCREASED. LEKARSTVENNYKH RASTENIY. MOSCOW.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

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UDC 616.921.5:615.371.372

SHICHANIN, V. V. and ROGOZIN, A. P.

"Efficacy of Influenza Vaccine"

Moscow, Voyenno-Meditsinskiy Zhurnal, No 11, 1973, p 47

Abstract: Influenza caused by the $A_242/72$ virus broke out in December 1972 and January 1973 in an army group which had been inoculated three times with A_2 vaccine the preceding two months. In mid-December a number of soldiers arrived from areas where they had not been vaccinated. The first influenza cases were reported a few days later among the newcomers and about a week thereafter in the main group. The sick rate was 424% and 151.5%, i.e., it was 2.8 times lower in those vaccinated. Moreover, the course of the disease was milder, the febrile period shorter, inflammatory phenomena less pronounced, and disability of briefer duration (4.21 versus 5.66 days in the nonvaccinated group).

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UDC 619:576.858.5:636.22/.28

SHICHKINA, V. P., PILLE, E. R., and DZAGUROV, S. G., State Control Institute of Medical Biological Preparations imeni A. L. Tarasevich

"Susceptibility of Cattle to Adenoviruses"

Moscow, Veterinariya, No 11, 1971, pp 39-40

Abstract: A study was carried out of the susceptibility to adenoviruses of healthy cattle brought to a meat-packing plant where sera are prepared for use in culture media. Complement-fixing antibodies were found in the sera of 12.3% of the animals investigated. Most of the sera reacted to type-2 adenovirus. Cytopathic agents were found in 21 of 201 sera. In 13 strains a complement-fixing antigen common to human type-6 adenovirus was detected, and 10 of the 13 strains isolated were classified as type-1, 2, and 3 adenoviruses. The susceptibility of such a significant number of healthy cattle to serum viruses indicates a need to exercise careful control of animals intended for use in virological practice.

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- 78 --

USSR UDC: 543.42.062

MIRONOV, V. A., FEDOROV, B. V., SHICHKOV, V. V., YACHIN, V. M.

"Universal Spectral Analyzer for Liquid Media"

Optich. i Titrometrich. Analizatory Zhidk. Sred [Optical and Titrometric Analyzers for Liquid Media], Reports of All Union Conference, 1971, Part 1, Tbilisi, 1971, pp55-60 (translated from Referativnyy Zhurnal Metrologiya i Izmeritel naya Tekhnika, No 2, 1972, Abstract No 2.32.1093 by V. S. Krasnova)

Translation: The Special Design Bureau of the Weather Bureau, Academy of Sciences, USSR has developed an experimental model of a universal spectral analyzer (A) for liquid media for measurement of action spectra (characteristic and effective). The A includes a two-wave radiator with controlled output spectra, a thermostated cuvette with regulator and temperature measuring device, interchangeable converters and electronic measuring devices and a recording potentiometer. The outputs of both channels of the radiator produce spectra of equal power with an error of equalization relative to the maximum standard level of not over 5% in the 300-760 hill wave range. The A allows curves of the change of electrical conductivity, partial oxygen pressure and photo-potentials to be measured as functions of wavelength of the incident radiation, radiation intensity, temperature and composition of liquid and gas media, surrounding the objects studied.

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SHIDISHKIS BONIS

"Intervals Such as Musical Symbols Transmitting Information Concerning the Natural Sequence of Sounds"

Mat. Metody v Sotsial'n. Naukakh. Vyp. 2 [Mathematical Methods in the Social Sciences. No 2 -- Collection of Works], Vil'nyus, 1973, pp 113-127 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V218)

Translation: The object of investigation of this work is the information processes involved in music. In the information processes in music, the sequence of musical symbols is very important: tones, intervals, harmonies. However, the task of this work is simpler: to show the capability of intervals to carry information on natural sound sequences. A games-theory approach is used to analyze the information process.

Author's view

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UDC 619.616.575.858.1

SHIDKOV, S. A., SERGEYEV, V. A., TRUBITSYN, B. I., and URVANTSEV, N. M., All Union Scientific Research Institute of Veterinary Virology and Micro-

"Characteristics of a Cold Variant of Foot-and-Mouth Disease Virus (Type 0)" biology

Moscow, Veterinariya, No 10, Oct 71, pp 42-44

Abstract: An earlier study showed that passaging foot-and-mouth disease virus (type 0, strain 0r-13) in a culture of calf kidney cells at 24°C resulted in its attenuation. Further study revealed that elevation of the temperature led to restoration of the lost properties, the sequence and intensity of which were determined by the temperature. Virus cultured at 30°C became pathogenic for mice and mildly pathogenic for guinea pigs and swine. It had no effect on cattle, could not be transmitted to calves by contact, and produced virtually no immunity. Virus cultured at 34°C became more pathogenic for guinea pigs and swine and caused atypical lesions on the oral mucosa, could be transmitted to cattle by contact but not to swine, and produced marked immunity in cattle and sheep. Virus grown at 37°C produced even stronger immunity and could be transmitted by contact 1/2

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UDC 619.616.575.858.1

SHIDKOV, S. A., SERGEYEV, V. A., TRUBITSYN, B. I., and URVANTSEV, N. M., All Union Scientific Research Institute of Veterinary Virology and Micro-

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Moscow, Veterinariya, No 10, Oct 71,pp 42-44

Abstract: An earlier study showed that passaging foot-and-mouth disease virus (type 0, strain 0r-13) in a culture of calf kidney cells at 24°C resulted in its attenuation. Further study revealed that elevation of the remperature led to restoration of the lost properties, the sequence and intensity of which were determined by the temperature. Virus cultured at 30°C became pathogenic for mice and mildly pathogenic for guinea pigs and swine. It had no effect on cattle, could not be transmitted to calves by contact, and produced virtually no immunity. Virus cultured at 34°C became more pathogenic for guinea pigs and swine and caused atypical lesions on the oral mucosa, could be transmitted to cattle by contact but not to swine, and produced marked immunity in cattle and sheep. Virus grown at 37°C produced even stronger immunity and could be transmitted by contact 1/2

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SHIDKOV, S. A., et al, Veterinariya, No 10, Oct 71, pp 42-44

to swine from vaccinated swine and claves. Virus grown at 39°C was able to replicate. The resistance of the cold variant to heating was not affected by elevation of temperature.

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UDC 536.46+662.222.1

GORBUNOV, V. V., SHIDLOVSKIY, A. A., Moscow

"Combustibility of Hydroxylamine and Hydrazine Salts"

Novosibirsk, Fizika Goreniya i Vzryva, No. 4, Dec. 70, p. 471-474.

Abstract: The significant exothermal nature of the thermal decomposition and combustion of NH_2OH and N_2H_4 means that not only these salts, but their water and acid solutions can burn. A thermochemical evaluation of the decomposition of the chlorides and sulfates of NH_2OH and N_2H_4 is presented. Conditions under which these compounds will burn are described. The leading reaction in the combustion of these salts is the exothermic decomposition of hydroxylamine or hydrazine. One of the main combustion products is ammonia, which forms salts-chlorides or sulfates. There is no gaseous hydrogen in the combustion products.

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UNCLASSIFIED PROCESSING DATE--040ECTO

1/2 034 UNCLASSIFIED PROCESSING DATE--040ECTO

TITLE--INFLUENCE OF SOME ADDITIVES ON THE CRITICAL, PARTICLE DIAMETER AND

RATE OF COMBUSION OF MIXTURES OF ALUMINUM WITH GELLED WATER -U
AUTHOR-(03)-VASILYEV, A.V., GORBUNOV, V.V., SHIDLOVSKIY, A.A.

COUNTRY OF INFO--USSR

SOURCE-IZV. VYSSH. UCHEB. ZAVED., KHIM. KHIM. TEKHNOL. 1970, 13(3), 318-21
DATE PUBLISHED----70

SUBJECT AREAS--PROPULSION AND FUELS

TOPIC TAGS--GEL, AQUEOUS SOLUTION, NICHROME ALLOY, CELLULOSE, COMBUSTION RATE, ALUMINUM, ALUMINUM FLUORIDE, LITHIUM FLUORIDE, POTASSIUM COMPOUND, SODIUM COMPOUND

CONTROL MARKING--NO RESTRICTIONS

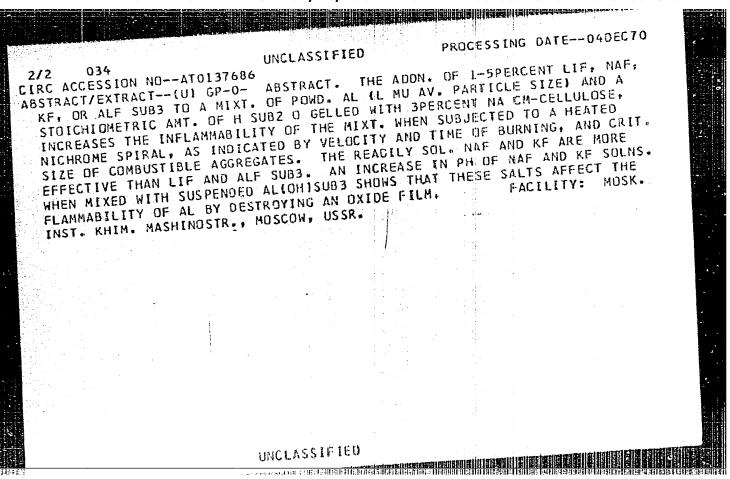
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0601

STEP NO--UR/0153/70/013/003/0318/0321

CIRC ACCESSION NO--AT0137686

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"



1/2 037 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--PROPERTIES OF CRYSTALLINE AMMONIUM NITRITE +U-

AUTHOR-(04)-SHIDLOVSKIY, A.A., POPOVICH, A.S., SHMAGIN, L.F., ROGOZHNIKOV,

COUNTRY OF INFO--USSR

SOURCE--ZH. PRIKL. KHIM. LENINGRAD 1970, 43(2), 434-6

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, PROPULSION AND FUELS, ORDNANCE

TOPIC TAGS--AMMONIUM NITRITE, COMBUSTION RATE, DETONATION, EXPLOSIVE PROPERTY, THERMAL SHOCK

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0724

STEP NO--UR/0080/70/043/002/0434/0436

CIRC ACCESSION NO--APOl19631

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202920015-8"

2/2 037 UNCLASSIFIED PROCESSING DATE--23UCT7C CIRC ACCESSION NO--APOL19631
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. D., LOSS OF WT. ON STURAGE, FLASH POINT, SENSITIVITY TO SHOCK AND FRICTION, RATE AND CAIT. DIAM. OF COMBUSTION AT ATM. PRESSURE, AND EFFECT ON COMBUSTION RATE OF NH SUB4 NC SUB2 AFTER ADDN. OF VARIJUS SUBSTANCES WERE STUDIED ALONG WITH EXPLOSIVE PROPERTIES, SUCH AS THE RATE OF CRIT. DIAM. OF DETONATION. CRYST. NH SUB4 NO SUB2 IS AN EXPLOSIVE SUBSTANCE OF AV. FORCE (ON THE ORDER OF TETRYL), BUT ITS PRACTICAL USE IS HARDLY POSSIBLE DUE TO ITS POOR CHEM. STABILITY AND ITS HIGH SENSITIVITY TO MEHC. AND THERMAL SHOCK. FACILITY: MOSK. INST. KHIM. MASHINOSTR., MOSCOW, USSR.

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UDC: 662.220

VASIL'YEV, A. V., CORBUNOV, V. V. and SHIDLOVSKIY, A. A., Mosdow Chemical Machine Building Institute, Moscow, Ministry of Higher Education USSR

"The Effect of Certain Additives on the Critical Diameter and the Rate of Combustion of Aluminum - Gelatinized Water Mixtures"

Ivanovo, Khimiya i Khimicheskaya Takhnologiya, Vol XIII, No 3, 70, pp 318-321

Abstract: The authors studied the effect of addition of 1 - 5% of Li, Na, K, and All fluorides to a standard mixture of Al / (Al + H₂0) stoich 7 as a means of overcoming the retardation of ignition and combustion caused by the presence of a stable oxide film on the Al particles. All of these additives improved inflammability and reduced critical diameter of combustion at atmospheric pressure, the nighly soluble NaF and KF being the most effective. From the significant increase in pH of aqueous NaF and KF upon the addition of an Al(OH), suspension, it is assumed that the improvements noted are the result of intensive disruption of the oxide film by the not solutions.

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UNCLASSIFIED PROCESSING DATE17JUL70 TITLEMASS SPECTRCPETRIC INVESTIGATIONS OF IONIC AND NEUTRAL COMPOSITION OF THE UPPER ATMOSPHERE BY MEANS OF MR12 ROCKETS -U- AUTHORZHLUCKO, A.G., POLOSKOV, S.M., FORHUNKOV, A.A., TESLENKO, V.P., SHIDLOVSKIY, A.A. COUNTRY OF INFOUSSR SCURCE-METEOFOLOGIYA I GIOROLOGIYA, 1970, NR 3, PP 72-82 DATE PUBLISHED			SHIL	LOVSKIY	A . A.
SUBJECT AREASATMOSPHERIC SCIENCES, MISSILE TECHNOLOGY	OF THE UPPER ATTOURS AUTHOR—ZHLUCKC, A.C., PO SHIDLCVSKIY, A.A. CCUNTRY OF INFO—LSSR SCURCE—PETECFCLCGIYA I	LOSKCV, S.M., PC	CF ICNIC AND NEU 2 RCCKETS -U- KHUNKCV, A.A., I	TESLENKE, V.P.,	
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